

DPM 5535-1

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

AUGUST 20, 1984.

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME

Dexter Corporation, Hysol Division

EMERGENCY TELEPHONE NO.

(415) 687-4201

ADDRESS (Number, Street, City, State, and ZIP Code)

2850 Willow Pass Road (P.O. Box 312), Pittsburg, California 94565

CHEMICAL NAME AND SYNONYMS

TWO-PART POLYAMIDE/ALIPHATIC CURED EPOXY SYSTEM
Epoxy Resins

TRADE NAME AND SYNONYMS

EA 956 Part A

FORMULA

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS

%

PIGMENTS

CATALYST

VEHICLE

Epoxy Resins

100

SOLVENTS

ADDITIVES

OTHERS

None of the ingredients in
this product are listed in
29 CFT 1910 or in "The
Directors List of Hazardous
Substances" from CAL/OSHA.

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

%

TLV
(Units)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)

Decomposes before boiling

SPECIFIC GRAVITY (H₂O=1)

1.25

VAPOR PRESSURE (mm Hg.)

N/A

PERCENT VOLATILE
BY VOLUME (%)

N/A

VAPOR DENSITY (AIR=1)

N/A

EVAPORATION RATE
(=1)

N/A

SOLUBILITY IN WATER

Negligible

APPEARANCE AND ODOR

Amber liquid with slight odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)

> 212°F TCC

FLAMMABLE LIMITS

Lel

U_{el}

EXTINGUISHING MEDIA

Chemical

Foam, Dry Chemicals, CO₂, Water Spray

SPECIAL FIRE FIGHTING PROCEDURES

Wear self-contained breathing apparatus when fighting fires in confined areas

UNUSUAL FIRE AND EXPLOSION HAZARDS

Dense smoke may be liberated.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE Not established.

EFFECTS OF OVEREXPOSURE

May cause skin irritation and possible allergic reactions. Prolonged and repeated contact may cause sensitization which will result in allergic reactions.

EMERGENCY AND FIRST AID PROCEDURES

Flush skin and eye contact with plenty of water. Wash skin thoroughly with soap and water, rubbing alcohol or hand cleaner. Do not use solvents. Remove soiled clothing and wash before reuse. If irritation persists or increases, see physician

SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

STABLE

X

INCOMPATIBILITY (Materials to avoid)

Strong oxidizing agents, strong Lewis or mineral acids.

HAZARDOUS DECOMPOSITION PRODUCTS

CO, NOx, aldehydes, acids and undetermined organics.

HAZARDOUS POLYMERIZATION

MAY OCCUR

X

CONDITIONS TO AVOID

WILL NOT OCCUR

Avoid mixing resin and curing agent in batches greater than one pound total.

Do not heat mixed adhesive above 75°F unless curing surfaces to be bonded. Otherwise, excessive heat build-up and the release of toxic gasses may occur.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Wear protective clothing, gloves and safety glasses. Cover with absorbent material; then Scrape up and transfer to metal container. Wipe up remaining residue with solvents, observing solvent flammability cautions, or use detergent.

WASTE DISPOSAL METHOD

Dispose of as hazardous waste according to D.O.T. hazard class. If not regulated by D.O.T., dispose of as ORM-E. Disposal method can be land burial or chemical incineration as regulated by all governmental agencies.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Not required with good industrial ventilation.

VENTILATION

LOCAL EXHAUST

Recommended

SPECIAL

MECHANICAL (General)

Recommended

OTHER

PROTECTIVE GLOVES

Impervious plastic or rubber

EYE PROTECTION

Safety glasses or goggles

OTHER PROTECTIVE EQUIPMENT

As needed to protect skin and clothing

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep product cool in accordance with label instructions.

OTHER PRECAUTIONS

Follow recommended curing schedule.

MATERIAL SAFETY DATA SHEET

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SECTION I

MANUFACTURER'S NAME Dexter Corporation, Hysol Division		EMERGENCY TELEPHONE NO. 415/687-4201
ADDRESS (Number, Street, City, State, and ZIP Code) 2850 Willow Pass Road (P.O. Box 312), Pittsburg, California 94565		
CHEMICAL NAME AND SYNONYMS		TRADE NAME AND SYNONYMS Curing Agent L-3
CHEMICAL FAMILY Aromatic Amine Curing Agent	FORMULA	

SECTION II - INGREDIENTS

	%
Methylene Dianiline (MDA)	33 ✓
Diaminoanisole	33
Phenylene Diamine	33
(above ± 5%)	

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
D.O.T. Requirements: Poison B, N.O.S. (Diaminoanisole)		
MDA CAS#101-77-9; Phenylene Diamine CAS#108-45-2		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)		SPECIFIC GRAVITY (H ₂ O=1)	
VAPOR PRESSURE (mm Hg.)		PERCENT VOLATILE BY VOLUME (%)	
VAPOR DENSITY (AIR=1)		EVAPORATION RATE (AIR=1)	
SOLUBILITY IN WATER	Partially		
APPEARANCE AND ODOR	Reddish black liquid with slight odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	200°F TCC	FLAMMABLE LIMITS	LeI	UeI
EXTINGUISHING MEDIA	Water spray or foam, CO ₂ , dry chemical extinguishers.			
SPECIAL FIRE FIGHTING PROCEDURES	Wear self-contained breathing apparatus when fighting fires in confined locations.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	Toxic gasses may be generated.			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

*HIGH HEALTH HAZARD - NIOSH toxic rating 3 ; ANSI class 6

EFFECTS OF OVEREXPOSURE

Prolonged or repeated contact of liquid or breathing of vapors or mists may cause delayed or serious injury to the liver and spleen (toxic hepatitis). Is a cancer suspect agent. Product is poisonous.

EMERGENCY AND FIRST AID PROCEDURES

If contact occurs, remove contaminated clothing and immediately wash skin with soap and water. In case of eye contact, flush eyes with plenty of water for at least 15 minutes and get medical attention. Ingestion - induce vomiting

*TLV for MDA = 0.1 ppm(skin) LD₅₀(rat)= 347 mg/Kg; TD_{Lo}(man)= 0.8 mg/Kg

SECTION VI - REACTIVITY DATA

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UNSTABLE

CONDITIONS TO AVOID

STABLE

X

INCOMPATIBILITY (Materials to avoid)

Strong oxidizing agents, strong Lewis or mineral acids.

HAZARDOUS DECOMPOSITION PRODUCTS

CO, NOx, aldehydes, acids and undetermined organics.

HAZARDOUS
POLYMERIZATION

MAY OCCUR

X

CONDITIONS TO AVOID

WILL NOT OCCUR

Do not mix with resins in quantities greater than one pound or excessive and irreversible heat build-up may occur.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Wear protective clothing, gloves and safety glasses. Cover with absorbent material, then Scrape up and transfer to metal container. Flush remaining residue with water.

WASTE DISPOSAL METHOD

Dispose of as hazardous waste according to D.O.T. hazard class. If not regulated by D.O.T., dispose of as ORM-E. Disposal method can be land burial or chemical incineration as regulated by all governmental agencies.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Supplied air line or self-contained when working in confined areas.

VENTILATION

LOCAL EXHAUST

Recommended

SPECIAL

MECHANICAL (General)

Recommended

OTHER

PROTECTIVE GLOVES

Impervious plastic or rubber

EYE PROTECTION

Safety glasses or goggles

OTHER PROTECTIVE EQUIPMENT

As needed to protect skin and clothing

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